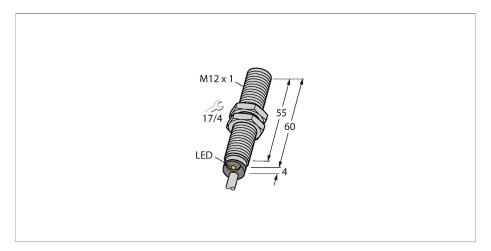


BIM-M12E-AG4X Magnetic Field Sensor – Magnetic-inductive Proximity Sensor



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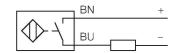
Technical data

Туре	BIM-M12E-AG4X	
ID	4430200	
General data		
Rated switching distance	90 mm	
	In conjunction with magnet DMR31-15-5	
Repeat accuracy	≤ 0.3 % of full scale	
Temperature drift	≤ ±15 %	
Hysteresis	110 %	
Electrical data		
Operating voltage	1065 VDC	
DC rated operational current	≤ 200 mA	
Residual current	≤ 0.8 mA	
Isolation test voltage	≤ 0.5 kV	
Short-circuit protection	yes / Cyclic	
Voltage drop at I _e	≤ 4.2 V	
Wire breakage/Reverse polarity protection	no / Polarized	
Output function	2-wire, NO contact, 2-wire	
Smallest operating current	≥ 3 mA	
Switching frequency	0.3 kHz	
Mechanical data		
Design	Threaded barrel, M12 x 1	
Dimensions	64 mm	
Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, PBT-GF30	
End cap	Plastic, EPTR	
Max. tightening torque of housing nut	10 Nm	

Features

- ■Threaded barrel, M12 x 1
- ■Chrome-plated brass
- Rated operating distance 90 mm with DMR31-15-5 magnet
- ■DC 2-wire, 10...65 VDC
- ■Polarized version
- ■NO contact
- Cable connection

Wiring diagram



Functional principle

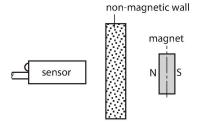
Magnetic inductive proximity sensors are actuated by magnetic fields and are thus capable of detecting permanent magnets through non-ferromagnetic materials (e.g. wood, plastic, non-ferrous metals, aluminium, stainless steel).

Thus it is possible to achieve large switching distances even with smaller housing styles. In combination with the actuation magnet DMR31-15-5 TURCK sensors feature a relatively high switching distance. Thus there are multiple detection possibilities, particularly if the mounting space is limited or other difficult sensing conditions prevail.



Technical data

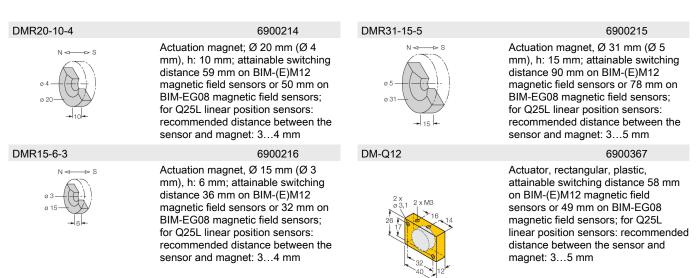
Electrical connection	Cable	
Cable quality	Ø 5.2 mm, Gray, LifYY-11Y, PUR, 2 m	
Core cross-section	2 x 0.34 mm ²	
Environmental conditions		
Ambient temperature	-25+70 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	



Mounting instructions

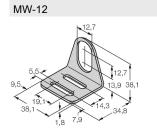
Mounting instructions/Description		
	Diameter active area B	Ø 12 mm

Accessories



6945003

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene



Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)